

## **ABSTRACT**

A power pooling apparatus uniformly distributes sector loads in a mobile communication system. The power pooling apparatus comprises a distributor for  
5 distributing signals output from a signal generator according to respective sectors; a radio signal processor for performing signal processing to provide an output of the distributor to an antenna; and an adaptive signal processor for determining a characteristic matrix of the distributor by using an output in a predetermined position on a signal processing path of the radio signal processor,  
10 and providing the characteristic matrix of the distributor to the distributor.